CLOUD COMPUTING

"LAB # 11"

Submitted by:

TANZEELA ASGHAR (2021-BSE-032)
LAIBA SOHAIL (2021-BSE-016)
BISMA ALI (2021-BSE-008)

SUBMITTED TO:

SIR SHAHZAD

LAB OBJECTIVE:

- **Open-stack Rocky Dashboard-Horizon**

STEP 1:

INSTALLING DASHBOARD:

- We will install open-stack dashboard by following command:

```
aaaa@controller:~$ sudo su -
root@controller:~# apt-get install -y openstack-dashboard
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
```

```
Fetched 12.8 MB in 20s (652 kB/s)
Selecting previously unselected package python-django-common.
(Reading database ... 124048 files and directories currently installed.)
Preparing to unpack .../00-python-django-common_1%3a1.11.11-1ubuntu1.21_all.deb ...
Unpacking python-django-common (1:1.11.11-1ubuntu1.21) ...
Selecting previously unselected package python-django.
Preparing to unpack .../01-python-django_1%3a1.11.11-1ubuntu1.21_all.deb ...
Unpacking python-django (1:1.11.11-1ubuntu1.21) ...
Selecting previously unselected package python-semantic-version.
Preparing to unpack .../02-python-semantic-version_2.3.1-1_all.deb ...
Unpacking python-semantic-version (2.3.1-1) ...
Selecting previously unselected package python-bson.
Preparing to unpack .../03-python-bson_3.6.1+dfsg1-1_amd64.deb ...
Unpacking python-bson (3.6.1+dfsg1-1) ...
Selecting previously unselected package python-bson-ext.
Preparing to unpack .../04-python-bson-ext_3.6.1+dfsg1-1_amd64.deb ...
Unpacking python-bson-ext (3.6.1+dfsg1-1) ...
Selecting previously unselected package python-csscompressor.
Preparing to unpack .../05-python-csscompressor_0.9.4-2_all.deb ...
Unpacking python-csscompressor (0.9.4-2) ...
Selecting previously unselected package python-django-babel.
Preparing to unpack .../06-python-django-babel_0.6.2-1_all.deb ...
Unpacking python-django-babel (0.6.2-1) ...
Selecting previously unselected package python-django-appconf.
Preparing to unpack .../07-python-django-appconf_1.0.2-3_all.deb ...
Unpacking python-django-appconf (1.0.2-3) ...
```

```
Preparing to unpack .../12-python-pyscss_1.3.5-2build2_amd64.deb ...
Unpacking python-pyscss (1.3.5-2build2) ...
Selecting previously unselected package python-django-pyscss.
Preparing to unpack .../13-python-django-pyscss_2.0.2-8_all.deb ...
Unpacking python-django-pyscss (2.0.2-8) ...
Selecting previously unselected package python-pymongo.
Preparing to unpack .../14-python-pymongo_3.6.1+dfsg1-1_amd64.deb ...
Unpacking python-pymongo (3.6.1+dfsg1-1) ...
Selecting previously unselected package python-gridfs.
Preparing to unpack .../15-python-gridfs_3.6.1+dfsg1-1_all.deb ...
Unpacking python-gridfs (3.6.1+dfsg1-1) ...
Selecting previously unselected package python-swiftclient.
Preparing to unpack .../16-python-swiftclient_1%3a3.6.0-0ubuntu1~cloud0_all.deb ...
Unpacking python-swiftclient (1:3.6.0-0ubuntu1~cloud0) ...
Selecting previously unselected package python-heatclient.
Preparing to unpack .../17-python-heatclient_1.14.0-0ubuntu1_all.deb ...
Unpacking python-heatclient (1.14.0-0ubuntu1) ...
Selecting previously unselected package python-pint.
Preparing to unpack .../18-python-pint_0.8.1-2_all.deb ...
Unpacking python-pint (0.8.1-2) ...
Selecting previously unselected package python-pymongo-ext.
Preparing to unpack .../19-python-pymongo-ext_3.6.1+dfsg1-1_amd64.deb ...
```

```
uto mode
Setting up openstack-dashboard (3:14.1.0-0ubuntu1~cloud0) ...
Adding system user `horizon' (UID 118) ...
Adding new user `horizon' (UID 118) with group `horizon' ...
Not creating home directory `/var/lib/openstack-dashboard'.
Collecting and compressing static assets...
apache2_invoke: Enable configuration openstack-dashboard.conf
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
root@controller:~#
```

STEP 2:

- **Open file and configure it:**

```
root@controller:~# vim /etc/openstack-dashboard/local_settings.py
```

```
# Set this to True if running on a multi-domain model. Whe
# will require the user to enter the Domain name in additi
# for login.
OPENSTACK_KEYSTONE_MULTIDOMAIN_SUPPORT = True
```

```
SESSION_ENGINE = 'django.contrib.sessions.backends.cache'

CACHES = {
    'default': {
        'BACKEND': 'django.core.cache.backends.memcached.MemcachedCache',
        'LOCATION': '10.0.0.11:11211',
    },
}
```

```
OPENSTACK_API_VERSIONS = {
    "identity": 3,
    "image": 2,
    "volume": 2,
}
```

```
OPENSTACK_HOST = "controller"
OPENSTACK_KEYSTONE_URL = "http://%s:5000/v3" % OPENSTACK_HOST
OPENSTACK_KEYSTONE_DEFAULT_ROLE = "_member_"
```

```
OPENSTACK_NEUTRON_NETWORK = {
    'enable_router': False,
    'enable_quotas': False,
    'enable_ipv6': False,
    'enable_distributed_router': False,
    'enable_ha_router': False,
    'enable_fip_topology_check': False,
    ' enable_lb': False,
    'enable_firewall': False,
    'enable_vpn': False,
```

```
# of your entire OpenStack installation, and hopefully
TIME_ZONE = "Asia/Kolkata"
```

```
root@controller:~# vi /etc/apache2/conf-available/openstack-dashboard.conf
root@controller:~#
```

```
WSGIScriptAlias /horizon /usr/share/openstack-dashboard/openstack
WSGIDaemonProcess horizon user=horizon group=horizon processes=3
WSGIProcessGroup horizon
WSGIApplicationGroup %{GLOBAL}

Alias /static /var/lib/openstack-dashboard/static/
Alias /horizon/static /var/lib/openstack-dashboard/static/

<Directory /usr/share/openstack-dashboard/openstack_dashboard>
  Require all granted
</Directory>

<Directory /var/lib/openstack-dashboard/static>
  Require all granted
</Directory>
~
```

STEP 3:

- **Restart and reload apache2:**

```
root@controller:~# systemctl restart apache2
root@controller:~# systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
root@controller:~#
```

```
root@controller:~# service apache2 reload
root@controller:~#
```

STEP 4:

- **LOGIN DASHBOARD HORIZON:**

PROBLEM: Controller open stack dashboard was not logging in.

SOLUTION: In file configuration there was an error of IP address of controller we have replaced IP address of controller from 10.13.0.41 to 10.0.0.11 because over network IP address is 10.13.0.41 but actual IP address at backend was 10.0.0.11.

ubuntu®   ▣ Default • admin ▾   ⚬ admin ▾

Project	⌄
Admin	⌄
Identity	⌃

Identity / Roles

Roles

🔍 | Click here for filters.   ✕ | **+ Create Role** | 🗑 **Delete Roles**

Displaying 4 items

☐	Name ▲	ID	
☐	admin	783ad82798e24f2788e74b9c949299d4	Edit Role ▾
☐	member	f059d8407e214aa0bdf09b3654bad7b4	Edit Role ▾
☐	myrole	92746c3e4d3d4959a0a9b09c47988723	Edit Role ▾
☐	reader	e3b7ef720f5548d1aae5d7ce45453a8f	Edit Role ▾

Displaying 4 items

Projects
Users
Groups
Roles
Application Credentials

---

ubuntu®   ▣ Default • admin ▾   ⚬ admin ▾

Project	⌃
	API Access
Admin	⌄
Identity	⌄

You are not authorized to access this page Login

---

ubuntu®   ▣ Default • admin ▾   ⚬ admin ▾

Project	⌄
Admin	⌄
Identity	⌃

Identity / Projects

Projects

Project Name = ▾ | [   ] | Filter | **+ Create Project** | 🗑 **Delete Projects**

Displaying 3 items

☐	Name	Description	Project ID	Domain Name	Enabled	Actions
☐	service	Service Project	1edb842a0c254645a386ca0d157d504b	Default	Yes	Manage Members ▾
☐	admin	Bootstrap project for initializing the cloud.	5619230cd54e4f5cb8250747525da6ab	Default	Yes	Manage Members ▾
☐	TheSkillPedia	TheSkillPedia Demo Project	c5426bff2892498dbfdd6b266828f599	Default	Yes	Manage Members ▾

Displaying 3 items

Projects
Users
Groups
Roles
Application Credentials

← → C ⚠ Not secure 10.13.0.41/horizon/identity/ □ Ⓠ Guest ⋮

openstack xf660 Default xf5c9 admin xf44f xf103 admin xf44f

Project

Admin

Identity

  Projects

  Users

  Groups

  Roles

  Application Credentials

Identity / Projects

Projects

PROJECT NAME = XF44F   FILTER   XF504 CREATE PROJECT   XF2B5 DELETE PROJECTS

Displaying 3 items

xf22Name	Description	Project ID	Domain Name	Enabled	Actions	
xf22service	Service Project	1edb842a0c254645a386ca0d157d504b	Default	Yes	MANAGE MEMBERS	XF44F
xf22admin	Bootstrap project for initializing the cloud.	5619230cd54e4f5cb8250747525da6ab	Default	Yes	MANAGE MEMBERS	XF44F
xf22TheSkillPedia	TheSkillPedia Demo Project	c5426bff2892498dbfdd6b266828f599	Default	Yes	MANAGE MEMBERS	XF44F

Displaying 3 items

← → C ⚠ Not secure 10.13.0.41/horizon/identity/ □ Ⓠ Guest ⋮

openstack ▣ Default • admin ▾ ▲ admin ▾

Project   ❯

Admin   ❯

Identity   ⌄

  Projects

  Users

  Groups

  Roles

  Application Credentials

Identity / Projects

Projects

Project Name = ▾   Filter   + Create Project   🗑 Delete Projects

Displaying 3 items

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☐	TheSkillPedia	TheSkillPedia Demo Project	c5426bff2892498dbfdd6b266828f599	Default	Yes	Manage Members	▾

Displaying 3 items